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Figure 1

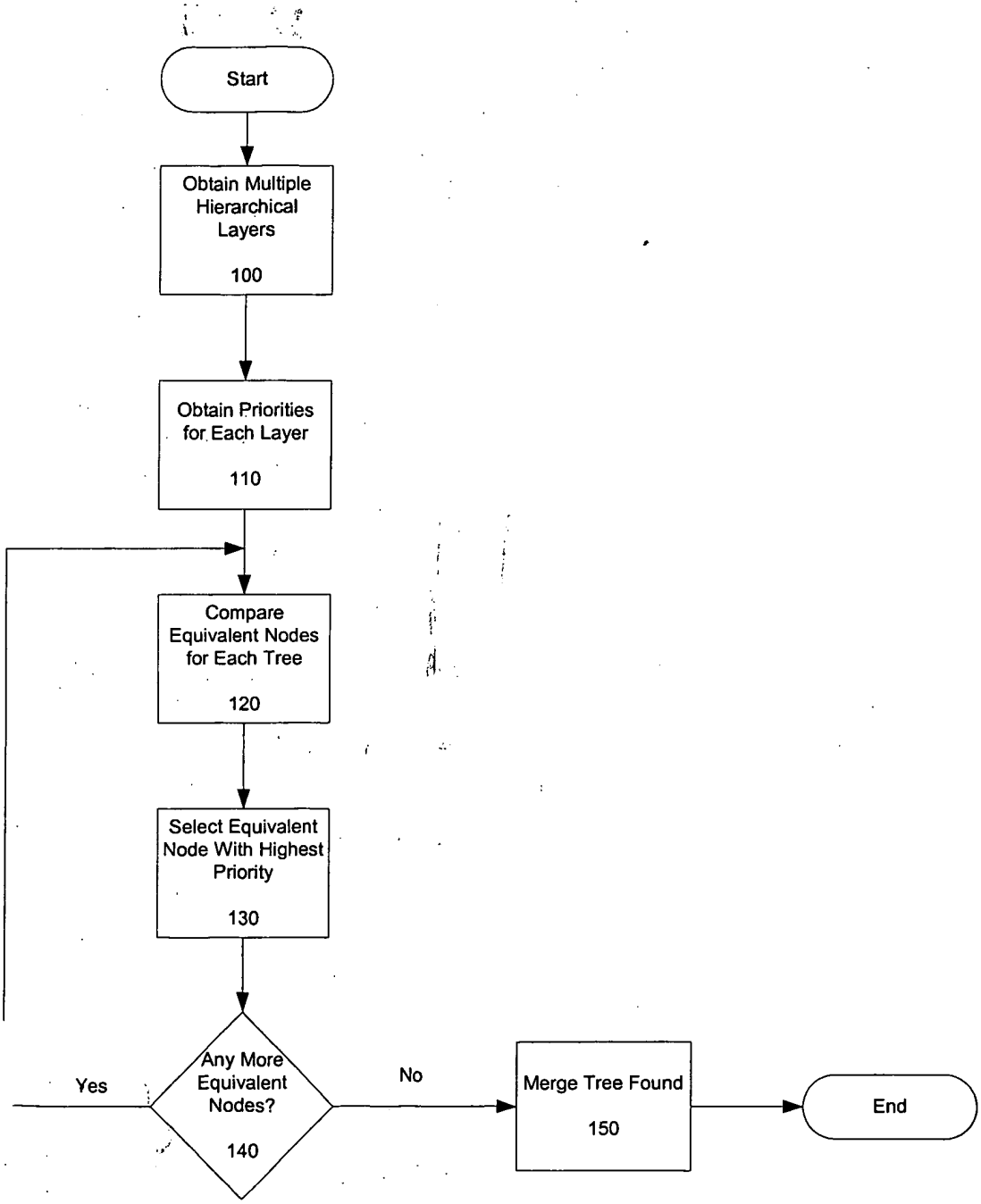
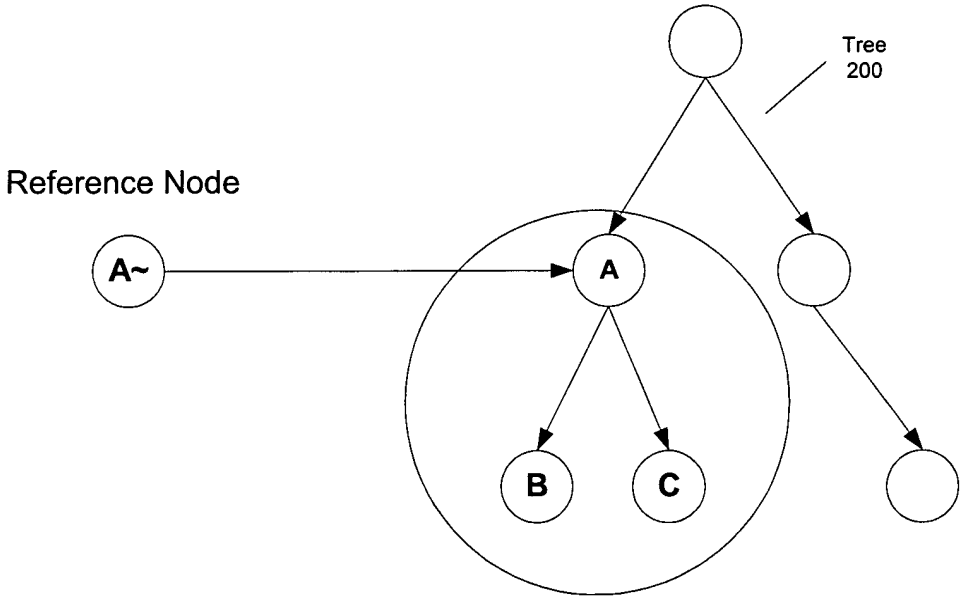

Start
Obtain Multiple Hierarchical Layers
100
Obtain Priorities for Each Layer
110
Compare Equivalent Nodes for Each Tree
120
Select Equivalent Node With Highest Priority
130
Any More Equivalent Nodes?
140
Yes
No
Merge Tree Found
150
End

Figure 2



1. Reference Node A~ Keeps a Reference to A
2. Any Children of A Are Also Included in the Contents of A~

Figure 3

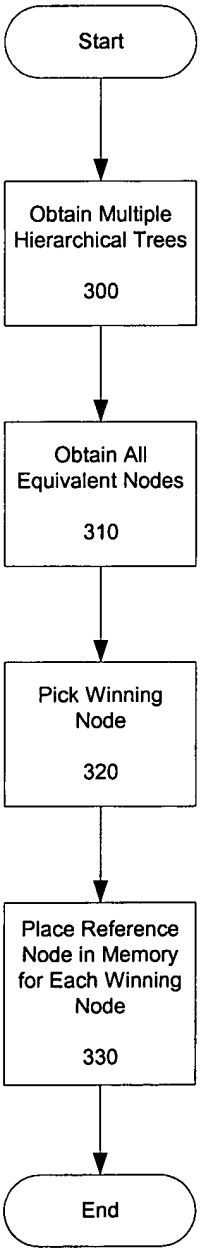

Start
Obtain Multiple Hierarchical Trees
300
Obtain All Equivalent Nodes
310
Pick Winning Node
320
Place Reference Node in Memory for Each Winning Node
330
End

Figure 4

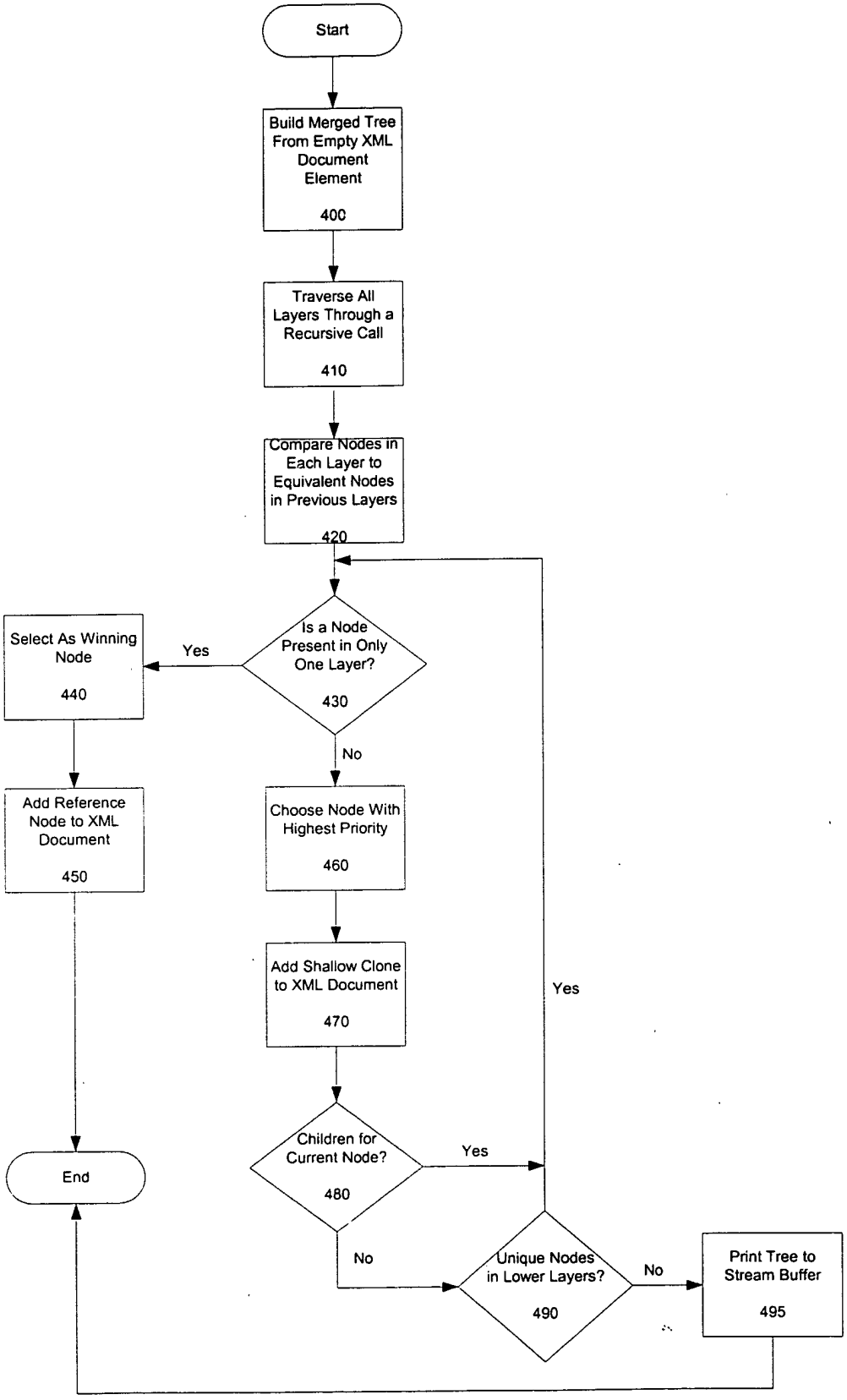

Start
Build Merged Tree From Empty XML Document Element
400
Traverse All Layers Through a Recursive Call
410
Compare Nodes in Each Layer to Equivalent Nodes in Previous Layers
420
Is a Node Present in Only One Layer?
430
Yes
Select As Winning Node
440
No
Choose Node With Highest Priority
460
Add Reference Node to XML Document
450
Add Shallow Clone to XML Document
470
Children for Current Node?
480
Yes
Yes
End
No
Unique Nodes in Lower Layers?
490
No
Print Tree to Stream Buffer
495

Figure 5

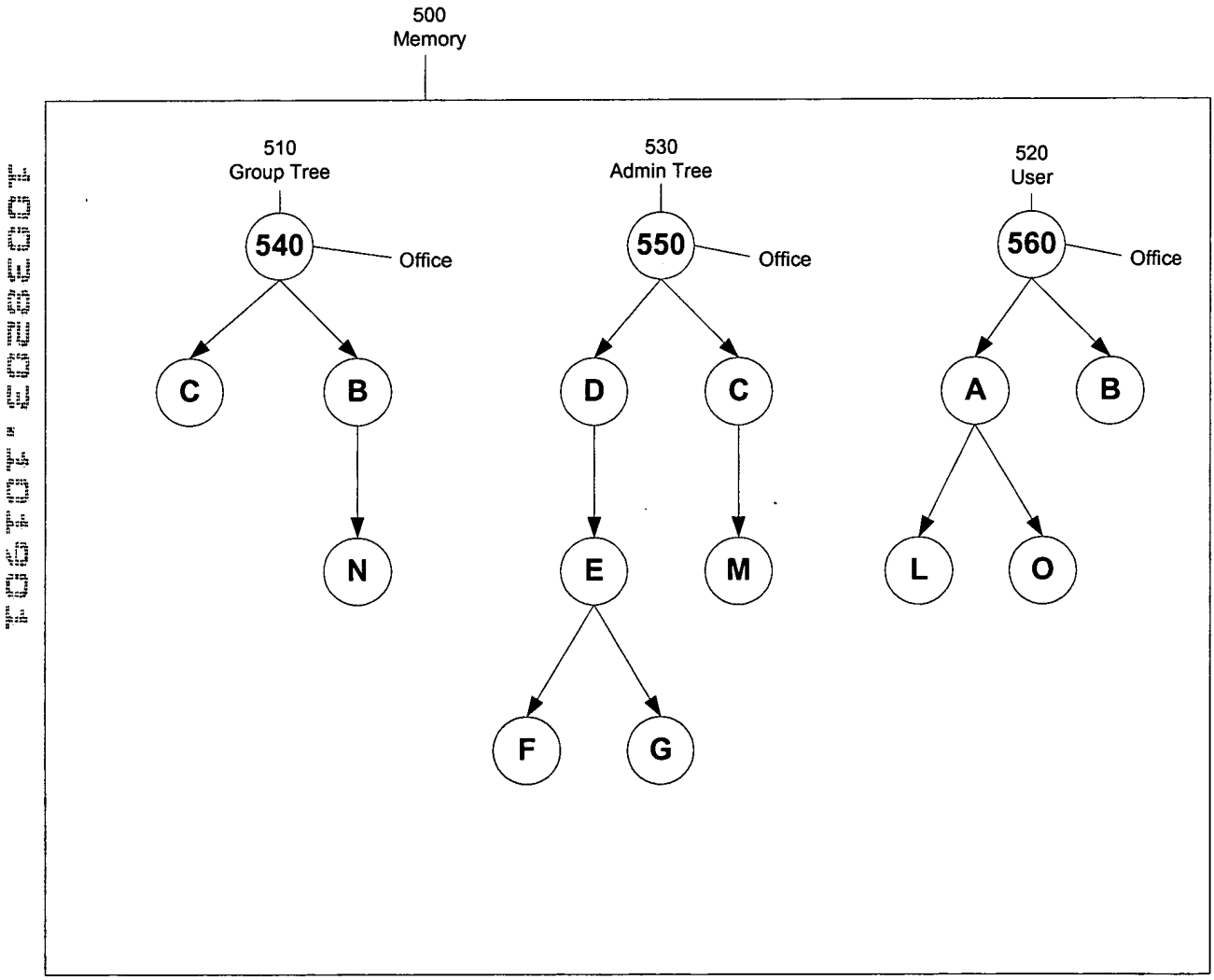
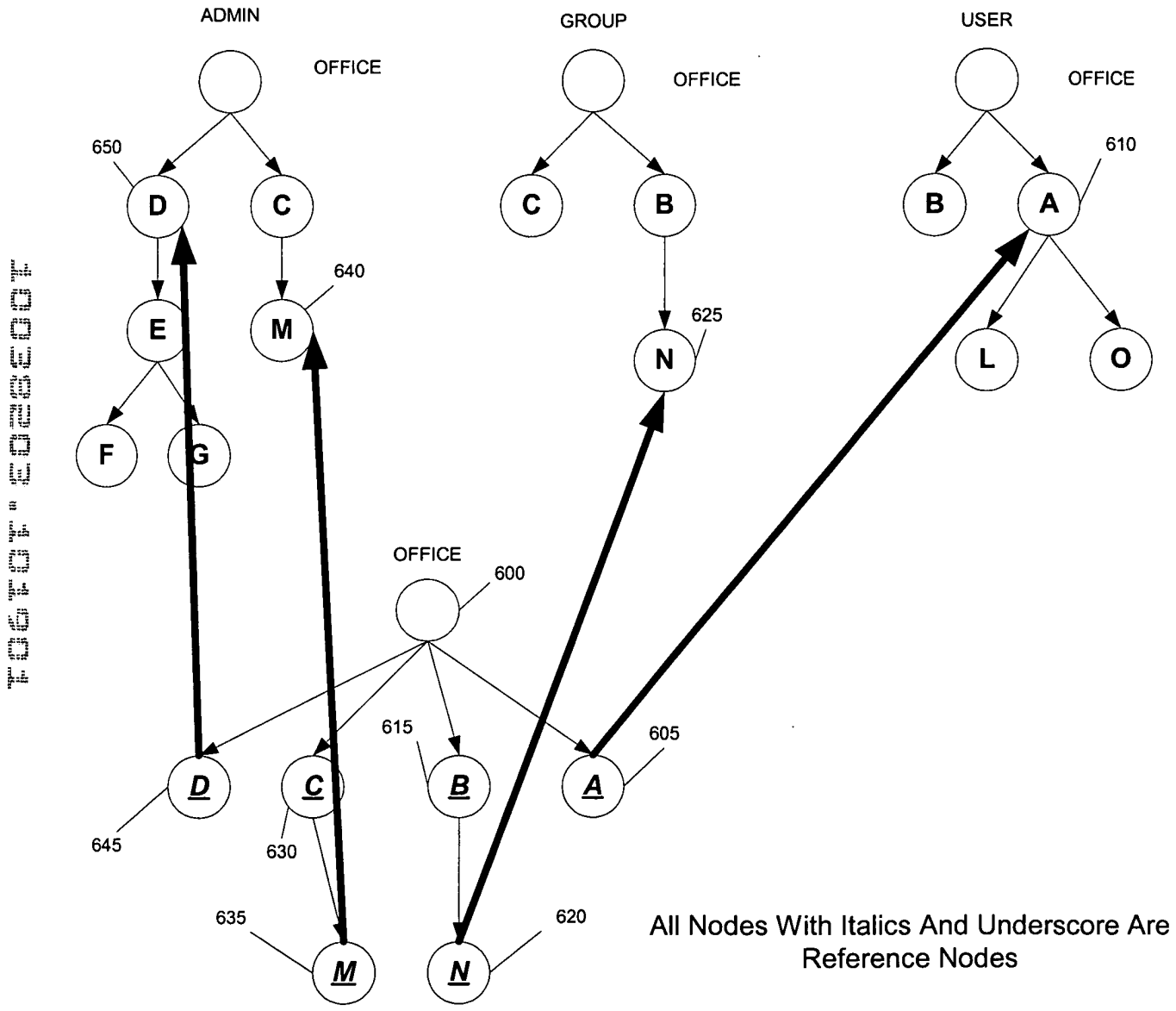
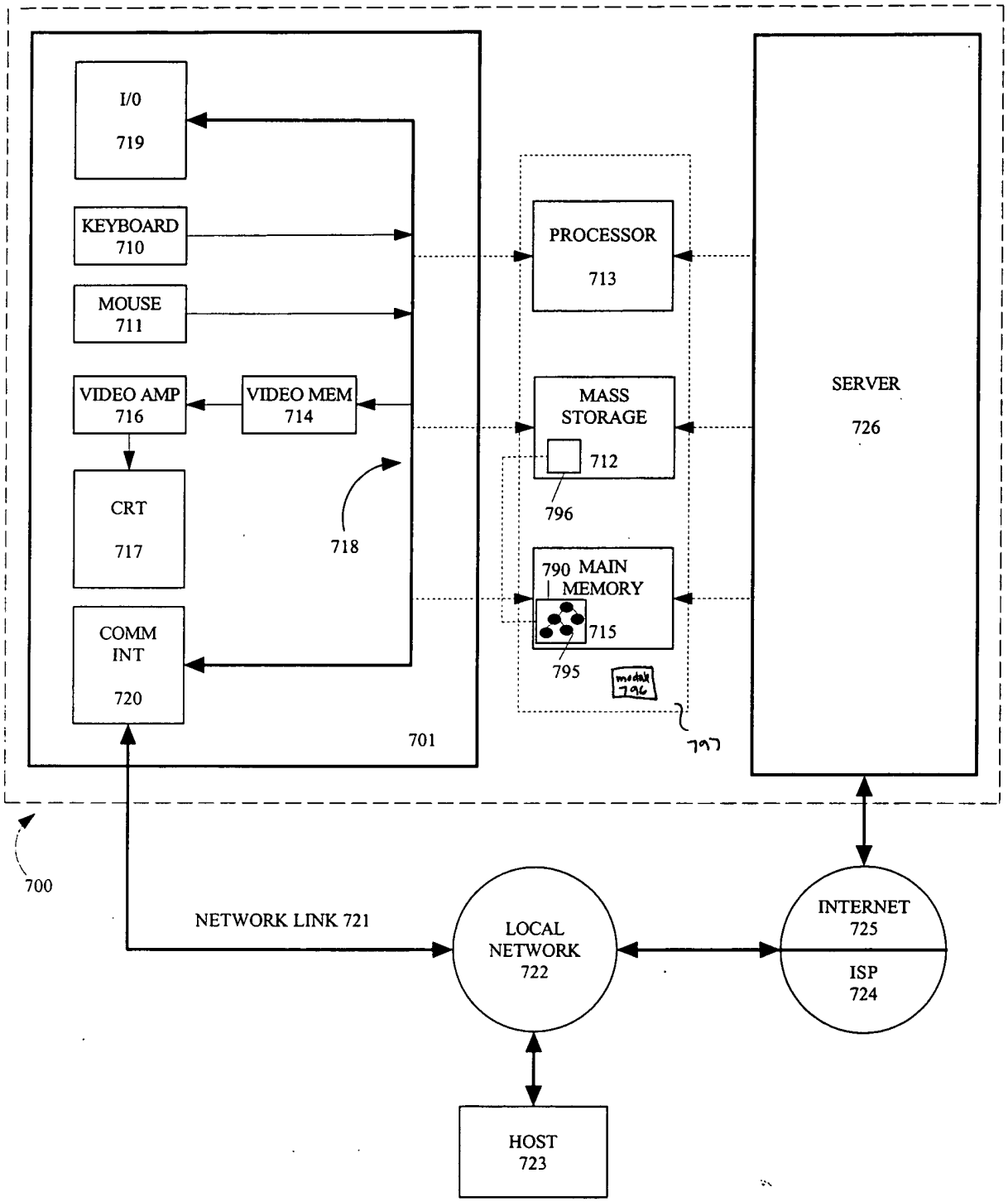

500
Memory
510
Group Tree
540
Office
C
B
N
530
Admin Tree
550
Office
D
C
E
M
F
G
520
User
560
Office
A
B
L
O

Figure 6



Merged Tree

FIGURE 7


I/O
719
KEYBOARD
710
MOUSE
711
VIDEO AMP
716
VIDEO MEM
714
CRT
717
718
COMM
INT
720
701
PROCESSOR
713
MASS
STORAGE
712
796
790 MAIN
MEMORY
715
795
797
SERVER
726
700
NETWORK LINK 721
LOCAL
NETWORK
722
INTERNET
725
ISP
724
HOST
723